```
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Title:
Perfect score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Database
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Minimum DB
Maximum DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                coring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                             2268
2268
2186
2186
577.5
547.5
137
127.5
                                                                                                                  118.5
115.5
115.5
115.5
115.5
115.5
115.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Issued_Patents_AA:*
1: /cgn2_6/ptodata/2,
2: /cgn2_6/ptodata/2,
3: /cgn2_6/ptodata/2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       July 29, 2002, 15:55:52; Search time 38.16 Seconds (without alignments) 294.439 Million cell updates/sec
                                                                                                                                                                                                                                                                                                   97.9
97.9
92.9
92.9
92.3
92.3
89.0
23.5
5.6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BLOSUM62
Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-08-866-354-40
2457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        231628 seqs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MLVFPSHYPDETLRSLASPS......RARLSAALTALPLLMLTLAL 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /cgn2_6/ptodata/2/laa/5A_COMB.pep:*
/cgn2_6/ptodata/2/laa/5B_COMB.pep:*
/cgn2_6/ptodata/2/laa/6A_COMB.pep:*
/cgn2_6/ptodata/2/laa/6B_COMB.pep:*
/cgn2_6/ptodata/2/laa/PCTUS_COMB.pep:*
/cgn2_6/ptodata/2/laa/PCTUS_COMB.pep:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length DB
         400
4544
4544
4544
2213
2214
4655
4655
4655
1036
11187
11218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          24425594 residues
     US-08-957-063-18
US-09-487-685-16
US-09-487-685-16
US-09-220-528-64
US-09-220-528-64
US-09-220-528-52
US-08-185-432-19
US-08-185-432-19
US-08-185-10
US-08-727-034-3
US-08-727-034-3
US-08-727-034-3
US-08-727-034-7
US-08-872-877-84
US-08-652-877-86
US-08-652-877-86
US-08-652-877-90
US-08-68-740A-7
US-08-682-046-2
                                                                                                                                                                                                                                                                                                                                                                                                                             US-08-957-063-6
US-09-487-685-6
US-08-957-063-3
US-09-487-685-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
Sequence 3, Appli
Sequence 18, Appl
Sequence 16, Appl
Sequence 16, Appl
Sequence 64, Appl
Sequence 63, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 3, Appli
Sequence 7, Appli
Sequence 84, Appl
Sequence 86, Appli
Sequence 86, Appli
Sequence 87, Appli
Sequence 88, Appli
Sequence 90, Appli
Sequence 7, Appli
Sequence 6, Appli
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                        Appli
Appli
Appli
Appli
Appli
Appli
     Ş
                                         Matches 451;
                                                         Query 'Match
Best Local Similarity
     10 DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 69
```

!/

97.9%; ilarity 100.0%; Conservative

0,

Score 2405; DB 3; Le 3; Pred. No. 3.1e-235;

Length 464; Indels

<u>..</u> Gaps

0

Δ. U	44	43	42	41	40	39	38	37	36	35	34	<u>ω</u>	32	<u>ω</u> 1	30	29	28	
107	107	107	. 107	107	107	107	1.107	109	109	109	109	110	, 112	112	112	113	, 114	•
4.4	4.4	4.4	4:4	4:4	4.4	4 . 4	4.4	4:4	4.4	4 4	4.4	4.5	4.6	4.6	4.6	4.6	4.6	
645	645	645	645	. 645	645	645	645	637	637	637	637	886	2556	2556	1218	1219	1218	
4	N	-	٢	ب	<u>, , , , , , , , , , , , , , , , , , , </u>	_	۲	σ	N	Ь	<b>_</b>	ú	ω	<u>, , , , , , , , , , , , , , , , , , , </u>	4	4	4	
US-09-020-880-93	US-08-456-241-27	US-08-339-517-4	US-08-428-298-4	US-08-428-927-4	US-08-428-926-4	US-08-456-201-27	US-07-847-743B-27	PCT-US92-04295A-28	US-08-456-241-28	US-08-456-201-28	US-07-847-743B-28	US-09-110-116-3	US-08-532-384-20	US-08-083-590A-20	US-09-214-278-7	US-08-882-046-5	US-09-068-740A-11	
Sequence 93, Appl	27,		Sequence 4, Appl1	Sequence 4, Appli	Sequence 4, Appl1	Sequence 27, Appl	Sequence 27, Appl	Sequence 28, Appl	Sequence 28, Appl	Sequence 28, Appl	Sequence 28, Appl	Sequence 3, Appli	Sequence 20, Appl	Sequence 20, Appl	Sequence 7, Appli	Sequence 5, Appli	Sequence 11, Appl	

## ALIGNMENTS

```
TELEFAX: 650/952-9881

INFORMATION FOR SEQ ID NO: (6)

SEQUIENCE CHARACTERISTICS:

LENGTH: 464 amino acids

TYPE: Amino Acid

TOPOLOGY: Linear

US-08-957-063-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 1;
US-08-957-063-6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 6, Application US/08957063 Patent, No. 6025157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GENERAL INFORMATION:
APPLICANT: Robert D.
TITLE OF INVENTION: 1
                                                                                                                                                                                                                                         APPLICATION NUMBER: US/08/95
EILING DATE: 24-OCT-1997
CCLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/871
EILING DATE: 9-Jun-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 913
EILING DATE: 18-Feb-1997
ATTORNEY/AGENT: INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 1nch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                         TELEPHONE: 650/225-8674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                                                                                                                                               NAME: Torchia, PhD., Timothy E. REGISTRATION: NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E: Genentech, Inc.
1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Neurturin
: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Klein, Arnon Rosenthal, Mary A. Hynes
                                                                                                                                                                                                                                                                                                                                                                                                                                   US/08/957,063
```

ं कुछ - हैं - हैं -1 to 1 to 1

```
RESULT 2
US-09-487-685-6
; Sequence 6, Ap
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    β
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Patent No. 6342348
GENERAL INFORMATION:
APPLICANT: Robert D. Klein, Arnon Rosenthal, Mary
                                             INFORMATION FOR SEQ ID NO: 6: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  430 KKVIKLNSGSSRARLSAALTALPLLMLTLAL 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             250
                                                                       APPLICATION NUMBER: 913
FILING DATE: 18 Feb-1997
ATTORNEY/AGENT INFORMATION:
NAME: TOTCH18, PhD. Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-8874
TELEPHONE: 650/225-8874
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14
                                                                                                                                                                                                                                                                                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WilPatin (Genentech)
                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/487,685
FILING DATE: 19-Jan-2000
CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                            PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE OF INVENTION: Neurturin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KKVIKLNSGSSRARLSAALTALPLLMLTLAL 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSBKGPSLPAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 133
                                                                                                                                                                                                              APPLICATION NUMBER: 08/957,063 FILING DATE: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                        CITY: South San F
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Application US/09487685
                                                                                                                                                                                                                                                                                                                                                                                                             COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                       STREET:
                                LENGTH: 464 amino acids
                                                                                                                                                                                                                                            APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE: Genentech, Inc
STREET: 1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                              94080
                  Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                            USA
                                                                                                                                                                                                                                                                                                                                                                                                                                      Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            — FTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TNISPGS 429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTNISPGS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δÃ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δõ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-957-063-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-487-685-6
                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 3, Application US/08957063 Patent No. 6025157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL
                             PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/87
FILING DATE: 9-Jun-1997
PRIOR: APPLICATION DATA:
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
                                                                                                                                             MEDIUM TYPE: 3.5 inch, 1.44 Mb (COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Winpatin (Genentech) CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/957,06
                                                                                                                                                                                                                          COMPUTER READABLE FORM: MEDIUM TYPE: 3.5 inc
                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: NUMBER OF SEQUENCES:
               ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Robert D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    77.4
                                                                                                                      FILING DATE: 24-Oct-1997 CLASSIFICATION: 800:
 NAME:
                                                                                                                                                                                                                                                                                                     CITY: South
                                                                                                                                                                                                                                                                         COUNTRY:
                                                                                                                                                                                                                                                                                                                     STREET:
                                                                                                                                                                                                                                                                                                                                   ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE DESCRIPTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sich 97.9%; So
cal Similarity 100.0%; I
(451; Conservative 0;
                                                                                                                                                                                                                                                                                                                                                                                                          INFORMATION:
                                                                                                                                                                                                                                                           94080
 Torchia,
                                                                                                                                                                                                                                                                                       California
                                                                                                                                                                                                                                                                                                                 E: Genentech, Inc.
1 DNA Way
                                                                                                                                                                                                                                                                         USA
                                                                                                                                                                                                                                                                                                       San
                                  18-Feb-1997
PhD.;
                                                                                                                                                                                                                                                                                                       Francisco
                                                                                                                                                                                                                                                                                                                                                                Neurturin
: 19
                                                                                                                                                                                                                                                                                                                                                                                          Klein, Arnon Rosenthal, Mary
                                                                                                                                                     US/08/957,063
 Timothy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ
                                                                                                                                                                                                                            1.44 Mb floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO:
                                                                                                                                                                                                                                                                                                                                                                            Receptor
```

A. Hynes

```
434 KKVIKLNSGSSRARLSAALTALPLLMLTLAL 464
                                                                                                                                                                                                                                                                                              QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGS
                                                                             KKVIKLNSGSSRARLSAALTALPLLMLTLAL 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHER THE TELL TO THE TELL THE THE TELL THE THE TELL THE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                irslcrtdhlcrsrladfhancrasyrtitscpadnyqaclgsyagmigfdmtpnyvdsn 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD 249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ÄNKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 2405; DB 4; 1
Pred. No. 3.1e-235;
0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 464;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              133
                                                                                                                                                                                                                                                                                                                     433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
```

```
RESULT 4
US-09-487-685-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; TOPOLOGY: Linear US-08-957-063-3
                                                                                                                                                                                                                                         Sequence 3, Application US/09487685
PATENT NO. 6342348
GENERAL INFORMATION:
APPLICANT: Robert D. Klein, Ar
TITLE OF INVENTION: Neurturin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches 426;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 464 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEPHONE: 650/225-8674
                                                                                                                                                                                                                                                                                                                                                                                                               430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       130
                                                                                                                                                                                                                                                                                                                                                                                434 NKVIKPNSGPSRARPSAALTVLSVLMLKLAL 464
                                                                                                                                                                                                                                                                                                                                                                                                                                             374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      310
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 36 REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: Amino Acid
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/487,685
FILING DATE: 19-Jan-2000
                                                                                                                                                                                                CORRESPONDENCE ADDRESS:
ADDRESSEE: Genente
                                                                                                                                                                                                                                                                                                                                                                                                                                          QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGS
                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DETERSLASPSSEQDPECHGWRPPVDCVRANELCAAESNCSSRYRTERQCLAGRDRNTML 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGEDMTPNYVDSN 309
                                                                                                                                                                                                                                                                                                                                                                                                 KKVIKLNSGSSRARLSAALTALPLLMLTLAL 460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEEYEASPYEPVTS 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RLSDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE
                                                                                                                                                    STREET: 1 DNA Way
CITY: South San Francisco
STATE: California
                                                                                                                                      COUNTRY:
                                                                                                                         ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                Genentech,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      92.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        36,700
                                                                                                                                                                                                                                                         Klein, Arnon Rosenthal, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P1086P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 2283; DB 3;
Pred. No. 7.1e-223;
8; Mismatches 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        429
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             δÃ
                                                                                                                                                                                RESULT : 5:
US-08-957-063-18
                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                       B
                                                                                                                                                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                                                                                                                DЬ
                                                                                                                                                                                                                                                                                                                                                                                           Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DЬ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       망
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-487-685-3
                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Simi
Matches 426;
                                                                                                                                                 Sequence·18, Application US/08957063 Patent No. 6025157
                                                                                                                                      GENERAL · INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: 08/957,063
FILING DATE: <UNKNOWN'S
APPLICATION NUMBER: 913
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
APPLICATION INFORMATION:
APPLICATION NUMBER: 36,700
REGISTRATION NUMBER: 36,700
REGISTRATION NUMBER: 36,700
REGISTRATION NUMBER: 91086P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEFAX: 650/952-9881 INFORMATION FOR, SEQ ID NO: 3:
                                                                        TITLE OF INVENTION: Neurturin Receptor NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
                                                                                                                        APPLICANT: Robert D.
                                                                                                                                                                                                                                                                                                    374
                                                                                                                                                                                                                                           434 NKVIKPNSGPSRARPSAALTVLSVLMLKLAL
                                                                                                                                                                                                                                                                         430
                                                                                                                                                                                                                                                                                                                                   370
                                                                                                                                                                                                                                                                                                                                                                 314
                                                                                                                                                                                                                                                                                                                                                                                              310
                                                                                                                                                                                                                                                                                                                                                                                                                            254
                                                                                                                                                                                                                                                                                                                                                                                                                                                          250
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 650/225-8674
STATE: C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity es 426: Co--
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 464 amino acids
TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         7.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          : 10
                                            STREET:
                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *KVIKLNSGSSRARLSAALTALPLLMLTLAL 460
                                                                                                                                                                                                                                                                                                                     QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGS 429
                                                                                                                                                                                                                                                                                                                                                                                                                          LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 69
                                                                                                                                                                                                                                                                                                     QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSVQEQGLKANNSKELSMCFTELTTNIIPGS
                                                                                                                                                                                                                                                                                                                                                                 PTGIVVSPWCSCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNVSPKGPSFQAT
                                                                                                                                                                                                                                                                                                                                                                                 PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT 369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DETLRSLASPSSLQDPELHGWRPPVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML
                              South San
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION:
              California
                                            1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                          Genentech, Inc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Linear
                               Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              92.9%;
                                                                                                                      Klein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2283; DB 4;
Pred. No. 7.1e-223;
"" matches 17;
                                                                                                                    Arnon Rosenthal, Mary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
```

0

Gaps

0

73

433

373

253 249

ş 밁 õ 밁 Š 밁 Q B ş ₽ ş 밁

ZIP: 9

TYPE: 3.5 inc

1.44 Mb floppy

disk

```
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
US-08-957-063-18
    RESULT 6
US-09-487-685-18
; Sequence 18, Application US/09487685
; Patent No. 6342348
; Patent No. 6342348
                                                                                                                                                                       Š
                                                                                                                                                                                                     밁
                                                                                                                                                                                                                              S
                                                                                                                                                                                                                                                                                                              ₽
                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                     Ş
                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ş
                                                                                            ₽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 420; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: 08/871
FILING DATE: 9-Jun-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
ATTORNEY/AGENT INFORMATION:
NAME: TOICHIA, PhD., Timothy E.
NAME: TOICHIA, PhD., Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: 91086P2
TELECOMMUNICATION INFORMATION:
TELEDHONE: 650,225-8674
TELEDHONE: 650,225-8674
 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDIUM TYPE: 3.5 inch, 1.44 Mb
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRIOR APPLICATION DATA:
                                                                                            434 R
                                                                                                                      430
                                                                                                                                                                            370
                                                                                                                                                                                                      314
                                                                                                                                                                                                                                                                                   250
                                                                                                                                                                                                                                                                                                               194
                                                                                                                                                                                                                                                                                                                                                                                           130
                                                                                                                                                                                                                                 310
                                                                                                                                                                                                                                                        254
                                                                                                                                                                                                                                                                                                                                        190
                                                                                                                                                                                                                                                                                                                                                                   134
                                                                                                                                                                                                                                                                                                                                                                                                                      74
                                                                                                                                                                                                                                                                                                                                                                                                                                                70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US/0 FILING DATE: 24-Oct-1997 CLASSIFICATION: 800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
                                                                                                                      K 430
                                                                                                                                                QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGS
                                                                                                                                                               QAPRVEKTPSLPDDLSDSTSLGTSVITTCTSIQEQGLKANNSKELSMCFTELTTNISPGS
                                                                                                                                                                                                                                                          LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                     LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                                                                                                                 PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT
                                                                                                                                                                                                                                                                                                            RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                            RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                    ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEEFYEASPYEPVTS 129
                                                                                                                                                                                                      PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT
                                                                                                                                                                                                                                                                                                                                                                                           RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE
                                                                                                                                                                                                                                                                                                                                                                                                                     ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        E: 3.5 inch, 1.44 Mb
IBM PC compatible
SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         92.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   us/08/957,063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 2268; DB 3;
Pred. No. 4.1e-221;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                       249
                                                                                                                                                 433
                                                                                                                                                                          429
                                                                                                                                                                                                                                                                                   309
                                                                                                                                                                                                                                                                                                                                                                 193
                                                                                                                                                                                                                                                                                                                                                                                           189
                                                                                                                                                                                                      373
                                                                                                                                                                                                                                                        313
                                                                                                                                                                                                                                                                                                                                                                                                                     133
                                                                                                                                                                                                                                                                                                              253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
S
                          밁
                                               Ş
                                                                               밁
                                                                                                       S
                                                                                                                                  밁
                                                                                                                                                         δÃ
                                                                                                                                                                                       밁
                                                                                                                                                                                                              δÃ
                                                                                                                                                                                                                                            ₽
                                                                                                                                                                                                                                                                    ş
                                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                       Q
                                                                                                                                                                                                                                                                                                                                                     밁
 430
                           374
                                                   370
                                                                               314
                                                                                                          310
                                                                                                                                    254
                                                                                                                                                            250
                                                                                                                                                                                       194
                                                                                                                                                                                                                   190
                                                                                                                                                                                                                                            134
                                                                                                                                                                                                                                                                      130
                                                                                                                                                                                                                                                                                                                                                     14
                                                                                                                                                                                                                                                                                                 74
                                                                                                                                                                                                                                                                                                                          70
                                                                                                                                                                                                                                                                                                                                                                               10
 × 430
```

```
; "SEQUENCE DESCRIPTION: SEQ US-09-487-685-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/957,063
FILING DATE: «Unknown»
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
AFTORNEY/AGENT INFORMATION:
NAME: TOTChia, PhD., Timothy E.
REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
TELEFAX: 650/252-8674
TELEFAX: 650/952-9881
INFORMATION FOR SED: ID NO: 18:
INFORMATION FOR SED: ID NO: 18:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
Matches '420; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PAPPLICANT: Robert D. Klein, Arnon Rosenthal, Mary A. Hynes
TITLE OF INVENTION: Neutturin Receptor
WUMBER OF SEQUENCES: 19
CORRESPONDENCE.ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CURRENT APPLICATION DATA:
                                                                                                                                                                                           LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN 309
                                                                                                                                                                                                                                                                                                                                                                                                                                              ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 129
RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD 249
                                                                                                                                                                                                                                                                                                                                                              RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                                                                                                                                                                                                                         ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DETLRSLASPSSLQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 69
                                                                                                                         PTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT 369
                                                                                                                                                                                                                                                     RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                        RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 193
                                                                                                                                                                     I.RSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET: 1 DNA WAY
CITY: South San Fr
STATE: California
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 664 amino acids
TYPE: Amino Acid
TOPOLOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US/09/487,685 FILING DATE: 19-Jan-2000 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: WinPatin (Genentech)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               92.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     inch,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 2268; DB 4;
Pred. No. 4.1e-221;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.44 Mb floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 664;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                       373
                                                                                                                                                                       313
                                                                                                                                                                                                                                                          253
```

0

밁

5

```
US-08-957-063-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: Ami
TOPOLOGY:
S-08-957-063-16
                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
Matches 402; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sequence 16, Application US/08957063
Patent No. 6025157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 650/952-9881 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
COPPUTATION WITHOUT (COMPATION)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 664 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: TOTCHIA, PhD., Timothy E. REGISTRATION NUMBER: 36,700
REFERENCE/DOCKET NUMBER: P1086P2
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SOFTWARE: WinPatin (Ger
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CORRESPONDENCE ADDRESS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           434 R
                                     250 LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN 309
                                                                                                                          190
                                                                                                                                                                                          130
                                                                                        194
                                                                                                                                                          134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/08/957,063 FILING DATE: 24-Oct-1997 CLASSIFICATION: 800
                                                                                                                                                                                                                            74
                                                                                                                                                                                                                                                             70
                                                                                                                                                                                                                                                                                           14
                                                                                                                                                                                                                                                                                                                             10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: 08/
FILING DATE: 9-Jun-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEPHONE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CITY: South San
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADDRESSEE:
                                                                                                                                                                                                                                                                                                           DETLRSLASPSSLOGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 69
                                                                                                                                                                                                                                                                                           DETLRSLASPSSLQDPELHGWRPPVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 73
                   LRGVCRTDHLCRSRLADFHANCRASYQTVTSCPADNYQACLGSYAGMIGFDMTPNYVDSS
                                                                                                      RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                        RLSDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 193
                                                                                                                                                                                        RLSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTE 189
                                                                                                                                                                                                                            ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS
                                                                                                                                                                                                                                           ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS 129
                                                                                     RCNRRKCHKALROFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Robert D. Klein, Arnon Rosenthal, Mary
                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      650/225-8674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Francisco
                                                                                                                                                                                                                                                                                                                                                                             89.0%;
95.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (Genentech)
                                                                                                                                                                                                                                                                                                                                                               æ
••
                                                                                                                                                                                                                                                                                                                                                             Score 2186; DB 3;
Pred. No. 8.4e-213;
8; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                             Length 664;
                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                      249
                                                                                                                                                                                                                            133
                                                                                     253
                                                                                                                                                                                                                                                                                                                                                               0
                                                                     B
                                                                                                   ρy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ş
                               Š
                                                                                                                                      밁
                                                                                                                                                                     Qy
                                                                                                                                                                                                                                                                                          : SEQUENCE DESCRIPTION: SEQ ID NO: 16: US-09-487-685-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 8,
US-09-487-685-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence:16, Application US/09487685
Patent No. 6342348
GENERAL INFORMATION:
APPLICANT: Robert D. Klein, Ar
TITLE OF INVENTION: Neurturin
NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                   Best Local Sin
Matches +402;
                                                                                                                                                                                                                                          Query; Match
                                                                                                                                                                                                                                                                                                                                                                                               INFORMATION FOR SEQ ID NO: 16:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        434 R 434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   430
                                                                     74 ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTS
                                                                                     7.0. ANKECQAALEVLQESPLYDCRCKRGMKKELQCLQIYMSIHLGLTEGEEFYEASPYEPVTS 129
                                                                                                                                               10 DETLRSLASPSSLOGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML 69
                                                                                                                                        14
                                                                                                                                                                                                                      Local Similarity
                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                               TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOFTWARE: WinPatin (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 mb:
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                      DETLRSLASPSSLQDPELHGWRPPVDCVRANELCAAESNCSSRYRTLRQCLAGRDRNTML
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    K 430
                                                                                                                                                                                                                                                                                                                           TOPOLOGY: Linear
                                                                                                                                                                                                                                                                                                                                                                                                             TELEPHONE: 650/225-8674
TELEFAX: 650/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US/09/487,685 FILING DATE: 19-Jan-2000 CLASSIFICATION: <Unknown>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: 08/957,063
FILING DATE: CUNKNOWN
APPLICATION NUMBER: 913
FILING DATE: 18-Feb-1997
                                                                                                                                                                                                                                                                                                                                             TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Torchia, PhD., Timothy E. REGISTRATION NUMBER: 36,700 REFERENCE/DOCKET NUMBER: P1086P2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: South San
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STREET: 1 DNA Way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ZIP: 94080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADDRESSEE:
                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genentech, Inc.
                                                                                                                                                                                                                        89.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Francisco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Klein, Arnon Rosenthal, Mary A. Hynes
                                                                                                                                                                                                      Score 2186; DI Pred. No. 8.4e 8; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Genentech)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Receptor
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       floppy
                                                                                                                                                                                                                          .4e-213;
                                                                                                                                                                                                                                          DB 4;
                                                                                                                                                                                                                                        Length 664;
                                                                                                                                                                                                          Indels
                                                                                                                                                                                                          0
                                                                                                                                                                                                        Gaps
                                                                     133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          373
                                                                                                                                      73
                                                                                                                                                                                                          0
```

Ş

밁

á В á В Ş 밁 ş

밁

```
망
                                                                           õ
                                                                                                                   ₽
                                                                                                                                                          á
                                                                                                                                                                                                   B
                                                                                                                                                                                                                                   õ
                                                                                                                                                                                                                                                                                 밁
                                                                                                                                                                                                                                                                                                                  á
  á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: PRT
; ORGANISM: Murine
US-09-220-528-64
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   á
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S
                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
Matches 127; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 64
LENGTH: 397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Milbrandt, Jeffrey D.
APPLICANT: Baloh, Robert H.
TITLE OF INVENTION: Artemin, A No. 6284540el Neurotrophic Factor
FILE REFERENCE: 6029-7998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT APPLICATION NUMBER: US/09/220,528A CURRENT FILING DATE: 1998-12-24 EARLIER APPLICATION NUMBER: 09/218,698 EARLIER FILING DATE: 1998-12-22 EARLIER FILING DATE: 1998-12-22 EARLIER APPLICATION NUMBER: 60/108,148 EARLIER FILING DATE: 1998-11-12 EARLIER APPLICATION NUMBER: 09/163,283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 64, Application US/09220528A Patent No. 6284540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EARLIER FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 120
SOFTWARE: PatentIn Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              09-220-528-64
      324
                                                                                                                                                                                                                                                                               101 HRRMKHQATCLDIYMTVHPARSLGDYELDVSPYEDTVTSKPWKMNLSKLNML------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         310
                                                                                                                                                                                                                                          146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              434 R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 430 K 430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    314
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              194
                                                                                                                                                                                                                                                                                                     92 KRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYE-PVTSR-----LSDIFRLASIFSGTG 145
                                                                                                                                                                                                                                                                                                                                                           41 CTQARKKCEANPACKAAYQHLGSCTSSLSRPLPLEESAMSADCLEAAEQLRNSSLIDCRC
                                                                                                                                                                                                                                                                                                                                                                                                36 CVRANELCAAESNCSSRYRTLRQCLAGRDRNTML----ANKECQAALEVLQESPLYDCRC
                                                               LADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYEDKEKPNCLD
    SGNMEEECEKFLRDFTENPCLRNAIQA 350
                                                                                                                       KAAESHAQGLLLCPCAPEDAGCGERRRNTIAPSCAL-PSVTPNCLDLRSFCRADPLCRSR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PTGIVVSPWCNCRGSGNMEEECCEKFLRDFTENPCLRNAIQAFGNGTDVNMSPKGPSLPAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNYQACLGSYAGMIGFDMTPNYVDSN
                                         LMDFQTHCHP--MDILGTCATEQSRCLRAYLGLIGTAMTPNFISKVNTTVALS--CTCRG
                                                                                                                                                          RVPSEYTYRMLFCSC--QDQACAERRRQTILPSCSYEDKEKPNCLDLRSLCRTDHLCRSR
                                                                                                                                                                                                   -----KPDSDLCLKFAMLCTLHDKCDRLRKAYGEACS-----GIRCQRHLCLAQLRSFFE
                                                                                                                                                                                                                                        TDPAVSTKSNHCLDAAKACNLNDNCKKLRSSYISICNREISPTERCNRRKCHKALRQFFD 205
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTGIVVSPWCSCRGSGNMEEECEKFLRDFTENPCLRNAIQAFGNGTDVNVSPKGPSFQAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LRGVCRTDHLCRSRLADFHANCRASYQTVTSCPADNYQACLGSYAGMIGFDMTPNYVDSS
                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                       23.5%; Score 577.5; DB 4; Length 38.8%; Pred. No. 3.9e-50; tive 40; Mismatches 125; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                397;
                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               249
                                                                                                                     261
                                                                                                                                                          263
                                                                                                                                                                                                   202
                                                                                                                                                                                                                                                                                                                                                                                                91
                                                                                                                                                                                                                                                                               152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  373
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          253
                                                                                                                                                                                                                                                                                                                                                                                                                                         9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Milbrandt; Jeffrey D.
APPLICANT: Milbrandt; Jeffrey D.
APPLICANT: Milbrandt; Artemin, A No. 6284540el Neurotrophic Factor
TITLE: OF INVENTION: Artemin, A No. 6284540el Neurotrophic Factor
FILE: REFERENCE: 6029-7998
CURRENT'APPLICATION NUMBER: US/09/220,528A
CURRENT'APPLICATION NUMBER: 09/218,698
EARLIER'APPLICATION NUMBER: 09/218,698
EARLIER APPLICATION NUMBER: 60/108,148
EARLIER APPLICATION NUMBER: 60/108,148
EARLIER FILING DATE: 1998-11-12
EARLIER FILING DATE: 1998-19-29
NUMBER OF SEQ ID NOMBER: 09/163,283
EARLIER APPLICATION NUMBER: 09/163,283
EARLIER FILING DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 120
SOFTWARE: Patentin Ver. 2.0
SOFTWARE: Patentin Ver. 2.0
TYPE: PRT
TYPE: PRT
GRANISM: Homo sapiens'
US-09-220-528-63
                                                                                              RESULT 11:

US-08-185-432-19

; Sequence 19, Application US/08185432

; Patent No. 5750652

; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                          Ş
                                                                                                                                                                                                                                                                                                                      멍
                                                                                                                                                                                                                                                                                                                                                         Ş
                                                                                                                                                                                                                                                                                                                                                                                                B
                                                                                                                                                                                                                                                                                                                                                                                                                                     Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-220-528-63

: Sequence 63, Application US/09220528A

: Patent No. 6284540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 멍
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 22.3%; Score 547.5; DB 4; Best Local Similarity 36.0%; Pred. No. 4.3e-47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches ::131;
APPLICANT:
APPLICANT:
APPLICANT:
                                                         APPLICANT:
                                                                                                                                                                                                                                 344 AIAA 347
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                174
                                                                                                                                                                                                                                                                             347 AIQA 350
                                                                                                                                                                                                                                                                                                                    286 SRCLRAYLGLIGTAMTPNFVSNVNTSVALS--CTCRGSGNLQEECEMLEGFFSHNPCLTE 343
                                                                                                                                                                                                                                                                                                                                                             287
                                                                                                                                                                                                                                                                                                                                                                                                  229
                                                                                                                                                                                                                                                                                                                                                                                                                                         227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 318 SGNLQDECEQLERSFSQNPCLVEAIAA 344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "1 MIVFPSHYPDETIRSIASPSSIQGSELHGWRPQVDCVRANELCAAESNCSSRYRTLRQCL 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10'
                                                                                                                                                                                                                                                                                                                                        QACLGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEECEKFLRDFTENPCLRN 346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ERRRNTIAPNCAL-PPVAPNCLELRRLCFSDPLCRSRLVDFQTHCHP--MDILGTCATEQ 285
                                                                                                                                                                                                                                                                                                                                                                                                                    ERRRQTILPSCSYEDKEKPNCLDLRSLCRTDHLCRSRLADFHANCRASYRTITSCPADNY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KCDRLRKAYGEACS-----GPHCQRHVCLRQLLTFFEKAAEPHAQGLLLCPCAPNDRGCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCKKLRSSYISICNREISPTERCNRRKCHKALRQFFDRVPSEYTYRMLFCSC--QDQACA 226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GEEFYEASPYE-PVTSR-----LSDIFRLASIFSGTGTDPAVSTKSNHCLDAAKACNLND 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LLLPPSPLPLAAGDPLPTESRLMNS------CLQARRKCQADPTCSAAYHHLDSCT 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GNYELDVSPYEDTVTSKPWKMNLSKLNML---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      S--SISTPLPSEEPSVPADCLEAAQQLRNSSLIGCMCHRRMKNQVACLDIYWTVHRARSL 126
                Busseau, Isabelle
Diederich, Robert J.
Xu, Tian
Matsuno, Kenji
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                           Artavanis-Tsakonas,
                                                                                                                                                                                                                   45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches 139;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            --- KPDSDLCLKFAMLCTLND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  49;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                           286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            173
```

11;